

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/AU03/00347

| <b>A. CLASSIFICATION OF SUBJECT MATTER</b>   |  |  |  |   |   |  |   |  |  |   |  |  |
|--|--|--|--|---|---|--|---|--|--|---|--|--|
| Int. Cl. <sup>7</sup> : F24F 1/01, 13/26   |  |  |  |   |   |  |   |  |  |   |  |  |
| According to International Patent Classification (IPC) or to both national classification and IPC  |  |  |  |   |   |  |   |  |  |   |  |  |
| <b>B. FIELDS SEARCHED</b>  |  |  |  |   |   |  |   |  |  |   |  |  |
| Minimum documentation searched (classification system followed by classification symbols)<br>IPC (7): F24F 1/01, 13/06, 13/26  |  |  |  |   |   |  |   |  |  |   |  |  |
| Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  |  |  |  |   |   |  |   |  |  |   |  |  |
| Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)<br>DWPI   |  |  |  |   |   |  |   |  |  |   |  |  |
| <b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>  |  |  |  |   |   |  |   |  |  |   |  |  |
| Category*  | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No.  |  |   |   |  |   |  |  |   |  |  |
| X  | GB 2371357 A (HALTON OY), 24 July 2002<br>Whole document   | 1-20   |  |   |   |  |   |  |  |   |  |  |
| X  | WO 02/42691 A (HALTON OY), 30 May 2002<br>Whole document   | 1-20   |  |   |   |  |   |  |  |   |  |  |
| X  | US 4711162 (ERIKSSON), 8 December 1987<br>Whole document   | 1-20   |  |   |   |  |   |  |  |   |  |  |
| <input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex  |  |  |  |   |   |  |   |  |  |   |  |  |
| <p>* Special categories of cited documents:</p> <table border="0"> <tr> <td>"A" document defining the general state of the art which is not considered to be of particular relevance</td> <td>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>"E" earlier application or patent but published on or after the international filing date</td> <td>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>"O" document referring to an oral disclosure, use, exhibition or other means</td> <td>"&amp;" document member of the same patent family</td> </tr> <tr> <td>"P" document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table> |  |  | "A" document defining the general state of the art which is not considered to be of particular relevance | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention | "E" earlier application or patent but published on or after the international filing date | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone | "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art | "O" document referring to an oral disclosure, use, exhibition or other means | "&" document member of the same patent family | "P" document published prior to the international filing date but later than the priority date claimed |  |
| "A" document defining the general state of the art which is not considered to be of particular relevance   | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  |  |  |   |   |  |   |  |  |   |  |  |
| "E" earlier application or patent but published on or after the international filing date  | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone   |  |  |   |   |  |   |  |  |   |  |  |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |  |  |   |   |  |   |  |  |   |  |  |
| "O" document referring to an oral disclosure, use, exhibition or other means   | "&" document member of the same patent family  |  |  |   |   |  |   |  |  |   |  |  |
| "P" document published prior to the international filing date but later than the priority date claimed   |  |  |  |   |   |  |   |  |  |   |  |  |
| Date of the actual completion of the international search<br>17 April 2003   |  | Date of mailing of the international search report 30 APR 2003             |  |   |   |  |   |  |  |   |  |  |
| Name and mailing address of the ISA/AU<br>AUSTRALIAN PATENT OFFICE<br>PO BOX 200, WODEN ACT 2606, AUSTRALIA<br>E-mail address: pct@ipaaustralia.gov.au<br>Facsimile No. (02) 6285 3929   |  | Authorized officer<br><br>ADRIAN GILLMORE<br>Telephone No : (02) 6283 2125 |  |   |   |  |   |  |  |   |  |  |

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| C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT |  |                       |
|---|--|-----------------------|
| Category*   | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| X   | US 4535685 (REUTER), 20 August 1985<br>Whole document                              | 1-20                  |
| X   | US 4448111 (DOHERTY), 15 May 1984<br>Whole document                                | 1-20                  |
| X   | GB 2109107 A (SULZER BROTHERS LTD.), 25 May 1983<br>Whole document                 | 1-20                  |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU03/00347

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

| Patent Document Cited in<br>Search Report |           |      |           | Patent Family Member |           |    |            |
|---|-----------|------|-----------|----------------------|-----------|----|------------|
| GB  | 2371357   | DE   | 10157408  | FI                   | 20002589  | FR | 2817329    |
|   |           | NO   | 20015721  | SE                   | 200103792 | US | 2002062948 |
| WO  | 200242691 | AU   | 200223711 | FI                   | 20002591  | FR | 2817331    |
| US  | 4711162   | AU   | 49670/85  | CA                   | 1263052   | DK | 3069/86    |
|   |           | EP   | 199762    | FI                   | 862686    | NO | 844320     |
|   |           | WO   | 8602710   |                      |           |    |            |
| US  | 4535685   | AU   | 29120/84  |                      |           |    |            |
| US  | 4448111   | NONE |           |                      |           |    |            |
| GB  | 2109107   | CH   | 653117    | FR                   | 2516212   |    |            |
| END OF ANNEX                              |           |      |           |                      |           |    |            |